



Automatic measurement system ensures the production quality of tablets

High performance tablet presses are fitted with quickly interchangeable matrix disk units in order to minimise cleaning and setting up times when employing press tools. In automated production a high level of precision is required to ensure the quality of each individual tablet.

In production up to 47 stamp pairs pass through the press station in a circular arrangement and, due to their high production rate, are subject to a certain amount of wear.

Here, an automatic system for the stamp measurement can ensure the optimum press quality. To achieve this, new or already used stamps are permanently arranged in a stanchion. A sensor system moves via a stepper motor and acquires the contour data of each stamp for classification. The stamps within a class can therefore be simply put together for a new matrix disk unit.

Requirements for the measurement system

- Measuring range: 5mm
- Accuracy: 20 μ m
- Resolution: 1 μ m
- Bandwidth: processing speed 2mm/sec

Ambient conditions

- Temperature: constant (regulation)
- Medium: air
- Interference fields: none